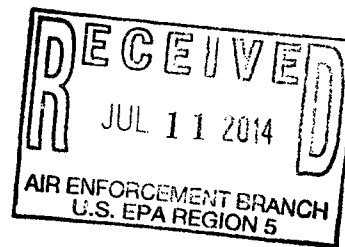




July 9, 2014

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC40)
Post Office Box 19276
Springfield, Illinois 62794-9276



Subject: Semi-Annual Monitoring System Performance Report for Sterigenics - Willowbrook, IL Facilities - Permit ID #043110AAC/Summary Report-Gaseous and Opacity Excess Emission and Continuous Monitoring System Performance

Dear Compliance Section:

This letter constitutes the semi-annual monitoring and summary report for Sterigenics Willowbrook, Illinois facilities. This report is intended to satisfy semi-annual reporting requirements in our current air permit. This report is organized by reporting requirements required by 40 CFR 63.366 (a)(3) and permit condition.

Summary Report for Sterigenics' facilities located at 7775 Quincy Street, Willowbrook, IL and 830 Midway Drive, Willowbrook, IL. These two facilities are combined in Permit #043110AAC.

Reporting Period Dates: January 1, 2014 to June 30, 2014.

Description of Process Units:

The facility process units are sterilization process chambers of various size using ethylene oxide and propylene oxide gases as the sterilant. The sterilization process chambers vacuum pump emissions are vented to the DeOxx Scrubber for Willowbrook I and to the AAT Scrubber for Willowbrook II. The aeration rooms are vented to the AAT Scrubber for Willowbrook I and II. Back vents are uncontrolled.

Emission and Operating Parameter Limitations Specified in Relevant Standards:

Control Device:	Control Parameter	Limitations/Standards	Deviations
DeOxx Scrubber WB I	Scrubber Glycol Solution Liquor Level	Record Weekly, must be less than 5,200 gallons	None
AAT Scrubber WB I	Scrubber Glycol Solution Liquor Level	Record Weekly, must be less than or equal to 160"	None
AAT Dry Bed Analysis WB I	Dry Bed Emission Outlet Concentration	Record Weekly, must be less than 1 ppm	None
AAT Scrubber WB II	Scrubber Glycol Solution Liquor Level	Record Weekly, must be less than 202"	None
AAT Dry Bed Analysis WB II	Dry Bed Emission Outlet Concentration	Record Weekly, must be less than 1 ppm for Aeration and 60 ppm for Vacuum Pump Discharge	None

Monitoring Equipment Manufacturers and Model Numbers:

N/A. There is no CMS monitoring equipment.

The date of the latest CMS certification or audit:

N/A. There is no CMS monitoring equipment.

The Total Operating Time of the Affected Source During the Reporting Period:**Willowbrook I Deox**

4,311 hours and 40 minutes total operating time. There were multiple outages during the reporting period totaling 32 hours and 20 minutes due to a several causes described below:

- Two outages totaling 1 hour and 13 minutes due to power loss.
- Multiple outages totaling 2 hours and 11 minutes due to tower recirculation pump overload.
- Two outages totaling 28 hours and 12 minutes due to a faulty relay.
- Two outages totaling 44 minutes due to low reactor tank level.

Willowbrook I AAT Scrubber

4,339 hours and 21 minutes total operating time. There were multiple outages during the reporting period totaling 4 hours and 39 minutes due to tower recirculation pump overload.

Willowbrook II AAT Scrubber

4,342 hours and 52 minutes total operating time. There was one outage lasting for 1 hour and 8 minutes due to facility power loss.

Emission Data Summary: There were no excess emissions during the reporting period.

Control Unit	Total Duration of Excess Emissions - quantity released	Excess Emission Duration by Cause (hours)				
		Startup - Shutdown	Control Equipment Problems	Process Problems	Other Known Causes	Unknown Causes
DeOxx Scrubber WB I	None	N/A	N/A	N/A	N/A	N/A
AAT Scrubber WB I	None	N/A	N/A	N/A	N/A	N/A
AAT Scrubber II	None	N/A	N/A	N/A	N/A	N/A

CMS Performance Summary:

N/A

Description of Changes in CMS, Process or Controls since Last Reporting Period:

N/A

Condition 8.6.1 requires:

A report summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit:

Monitoring Period

January – June

July – December

Report Due Date

September 1

March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with condition 9.9.

Sterigenics U.S. LLC has reviewed all applicable provisions of the operating permit. All liquid levels in the scrubbers are being monitored weekly and were within the levels established during the compliance test. U.S. EPA Region 5 approved monitoring requirements for the AAT Dry Bed Adsorbent System on December 19, 2002. There have not been any deviations from current applicable limits or standards. There also have not been any monitor malfunctions during the reporting period from January 1, 2014 through June 30, 2014.

Responsible Official Certification

Based on the information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Kathy Hoffman

Kathy Hoffman
Senior Vice President - EHS

10-Jul-2014

Date

If you have any questions regarding this report, please call me at (630) 928-1768.

Sincerely,

Susan M. Reinhardt

Susan Reinhardt
Manager
Environment, Health and Safety

Pc: Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

USEPA (AR-17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
P.O. Box 19506
Springfield, Illinois 62794-9506

Sterigenics Management:

Bob Novak – General Manager – Willowbrook, IL
Kathleen Hoffman – Senior Vice-President, EHS
Juan Segovia- Vice-President of Operations